**GOVERNMENT OF ANDHRA PRADESH**
**ABSTRACT**

Revenue (Lands.IV) Department-Lands - Memorandum ofUnderstanding to be entered in between Government of AndhraPradesh and Survey of India, Ministry of Science and Technology, GOI,for Integration of A.P. Continuously Operating Reference Station (CORS)network with the National CORS platform-Approval of Memorandum ofUnderstanding to be entered between Government of Andhra Pradeshand NBCC (INDIA) Ltd (A Government of India Enterprise) – Authorization to the Director of Survey Settlements & Land Records,A.P., Mangalagiri to sign the MoU, on behalf of Government of AndhraPradesh - Orders - Issued.

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**REVENUE (LANDS.IV) DEPARTMENT**

**G.O.MS.No. 369** **Dated: 09-10-2025**

**ORDER:**

Survey of India (SoI), Department of Science and Technology, GOI,serves as the apex national mapping agency responsible for establishingand maintaining the National Spatial/Geodetic Reference Frame (NGRF).Traditionally, this was accomplished using Ground Control Points (GCPs)and benchmarks. To modernize this infrastructure and meet the growingdemand for high-precision, real-time positioning services, Survey of Indiahas implemented a nationwide Continuously Operating ReferenceStation (CORS) network, delivering centimetre-level positional accuracyto support critical applications in land governance, logistics,infrastructure, disaster management, and research.

2. Government of Andhra Pradesh (GoAP), through its Survey,Settlements, and Land Records (SSLR) Department, established 70 state-owned Continuously Operating Reference Stations (CORS) stations in2018 under the AP Resurvey Project for conducting survey of Agriculturallands, properties in abitations/ULBs.

3. The Survey of India (SoI), the national mapping agency, manages alarger network of over 1,000 CORS stations across India to create aunified National Geodetic Reference Network.

4. The Survey of India (SoI), have proposed integrating Andhra Pradesh'sCORS network into national framework to improve efficiency, avoidduplication, and support national initiatives like Digital India. Thisintegration requires a Memorandum of Understanding (MoU), to outline how data and responsibilities will be shared.

5. The need for this integration stems from the desire to create aseamless, standardized geospatial system across India. This wouldenhance applications in areas like urban planning, agriculture, andscientific studies (e.g., climate change and earthquake monitoring). SoIhas assured Andhra Pradesh that it will take over maintenance costs for the 70 CORS stations after the current contract expires, providetechnical upgrades, and ensure the state retains ownership andrecognition for its infrastructure. The integration also aligns with theNational Geospatial Policy of 2022, which promotes sharing publiclyfunded data as a "common good."

6. The Andhra Pradesh state invested ₹11.74 crores to establish itsCORS network and faces annual maintenance costs of ₹50.73 lakhs. Theproposed MoU

ensures that Andhra Pradesh retains full revenue fromprivate CORS data usage, receives free access for 1,500 state users tothe national network, and gets technical support from SoI. A JointTechnical Oversight Committee with equal representation from bothsides will monitor decisions, ensuring the state's interests are protected.

7. The MoU enables the joint operation, maintenance, and integration ofthe Andhra Pradesh CORS Network into the National CORS infrastructuremanaged by SoI, while safeguarding the interests and autonomy of theGovernment of Andhra Pradesh.

8. In view of the above, after careful consideration, Government ofAndhra Pradesh hereby decided to enter into memorandum ofUnderstanding with Survey of India,(SOI), Department of Science andTechnology, Government of India, New Delhi, for integrating AndhraPradesh's Continuously Operating Reference Station (CORS) networkwith the National CORS to improve efficiency, avoid duplication, andsupport national initiatives like Digital India.

9. Accordingly, Government hereby approve the Memorandum ofUnderstanding (MoU), appended as Annexure to this orders, to beentered between Government of Andhra Pradesh and Survey of India,Department of Science and Technology, Government of India, New Delhi.

10. Further, the Director of Survey, Settlements & Land Records, A.P.,Mangalagiri is authorized to sign the MoU on behalf of Government ofAndhra Pradesh.

11. The Director of Survey, Settlements & Land Records, A.P.,Mangalagiri shall take further action accordingly.

**(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)**

**G JAYALAKSHMI**
**SPECIAL CHIEF SECRETARY TO GOVERNMENT (FAC)**

To
The Director of Survey, Settlements & Land Records,
A.P.,Mangalagiri.
The Survey of India,( SOI), Department of Science and Technology,
Government of India, New Delhi.
The Chief Commissioner of Land Administration&SPl.CS, A.P., Mangalagiri.
Copy to:
The P.S.to Principal Secretary toHon'ble Chief Minister
OSD to Hon'ble Minister (Revenue, Registration & Stamps)
P.S.to Special Chief Secretary to Government,Revenue(Lands)Department.
G.A.(Cabinet)Department
SC/SF.

**//FORWARDED::BY ORDER//**

**SECTION OFFICER.**

**Annexure**

**(to G.O.Ms.No.369 , Revenue (Lands.IV) Department, Dated:09.10.2025**

MEMORANDUM OF UNDERSTANDING

BY AND BETWEEN

Government of Andhra Pradesh

AND

Survey of India, (SoI)

Department of Science and Technology,

Government of India, New Delhi

For

integration of A.P. Continuously Operating Reference Station (CORS)

network with the National CORS platform

-------October,2025

This memorandum of understanding ("MoU") is made and entered intoon the ------ day of -------- 2025 (“Effective Date”)

by and between

The President of India, acting through Surveyor General of India, Surveyof India, Ministry of Science and Technology Govt. of India, having itsoffice at Hathibarkala Estate, Dehradun. Uttarakhand 248001, India(hereinafter referred to as “SOI” which shall, unless excluded by orrepugnant to the context, be deemed to include his successors in office)

And

The Governor, Govt. of Andhra Pradesh, acting through the Director,Survey, Settlements & Land Records under the Department of RevenueGovt. of Andhra Pradesh and having its office at 4th Floor, APIIC Towers,Mangalagiri, Andhra Pradesh. (hereinafter referred to as "SSLR"),

Hereinafter both referred to as a "Party" or jointly as the "Parties".

whereas:

1. Director of Survey, Settlements & Land Records (DSSLR) is controllingauthority for Administration of Survey Settlement and land Records inthe State of A.P. organized under Department of Revenue Govt. of A.P.

2. Sol is the national surveying and mapping organization of India,organized under the Department of Science &Technology.

3. Both Parties wish to cooperate for Sharing of Data and PositioningServices Generated by Continuously Operating Reference StationNetwork in State of

Andhra Pradesh for the Maintenance of the NationalSpatial Reference Frame and Earth Observation system.

Therefore, the Parties wish to document and capture their intentions with respect thereto in this MoU and agree as follows:

**Section 1: Goals or the Cooperation**

SoI and SSLR have recognized each other's capabilities in the Mapping &Survey work and agree to discuss and jointly work on a closerengagement between SoI and SSLR as per Exhibit A forming an integralpart of this MoU.

**Section 2: Costs of the Cooperation**

Each Party shall bear its own costs for its operational responsibilitiesarising in connection with the activities contemplated by this MoU as wellas its own costs and expenses in relation to the negotiations and anypreparatory work for this MoU and any future agreement.

**Section 3: Announcement**

Any press release or public announcement related to the cooperationmentioned in this MoU shall be issued by the Parties jointly. For theavoidance of doubt, neither Party may issue a press release or any otherpublic announcement without a prior written approval of the other Party.

**Section 4: Confidentiality**

a) The Parties agree and acknowledge that any oral information orwritten materials exchanged in connection with this MoU, the existenceand terms of this MoU are confidential information ("ConfidentialInformation"). The Parties shall keep confidentiality of any and allConfidential Information, and neither Party shall, without prior writtenconsent from the other Party, disclose any Confidential Information toany third party, except for employees, Legal counsels, financial advisorsand affiliated entities as necessary in connection with the cooperationunder this MoU, and such external legal counsel and financial advisorsshall be under substantially similar confidentiality obligations as set forthin this Section.

The following information shall not be deemed Confidential Information:

(i) information that is generally available to the public, except asthe result of an unauthorized disclosure by the Party receiving theConfidential Information or any affiliated entity or individualthereof,

(ii) when the disclosure of the information is required according toapplicable law, or any requirements of a competent governmentauthority, a competent stock exchange or relevant stock exchangeregulations or rules, provided, to the extent permitted by law, theParty disclosing the information to such authority shall give theother Party reasonable advance notice of such required disclosure,and the Parties shall agree upon the scope and content of thedisclosure,

(iii) the information has been known to the receiving Party withoutbreaching any confidentiality obligations before such disclosure bythe disclosing Party,

or

(iv) the information has been developed independently frominformation received from the disclosing Party without using theConfidential Information which is evidenced by reasonablematerials,

or

(v) the information lawfully obtained from a third party by thereceiving Party.

b) The Parties further agree to only use such Confidential Informationprovided by the other Party in connection with matters under this MoUand shall destroy or return such Confidential Information after thetermination of this MoU or as requested by the other Party.

c) Any breach of this **Section 4** by a Party's affiliated entity, anemployee of a Party or its affiliated entity, or an advising entity engagedby a Party shall be deemed a breach of that Party, and that breachingParty shall be held liable for such a breach under this MoU.

d) This **Section 4** shall survive any annulment, termination, or expirationof this MoU for any reason.

**Section 5: Intellectual Property Rights**

a) The exclusive right to possess and/or control the ConfidentialInformation, material and/or data (and any copies of all or part of it)provided under or in connection with this MoU shall remain vested in thedisclosing Party. No Party acquires any intellectual property rights underthis MoU (including, but not limited to, patent, trade secrets, copyrightsor trademark rights) and no rights or licenses in or to the ConfidentialInformation, material and/or data are granted to the receiving Party.

b) Except for purposes and/or activities defined under Exhibit A, Unlessthe Parties have separately entered into explicit written licenseagreement(s), neither Party (nor any of its affiliated entities) shall,without prior written consent from the other Party and without anyauthorization, use or copy any Confidential Information, Database, mapdata, patent, trademark, name, logo, business information, technologyand other data, material, domain name, copyright or any otherintellectual property owned by the other Party or any of its affiliatedentities, or apply for registration of any similar intellectual property.

c) The Parties shall separately confer and agree in writing upon theownership of any new intellectual property (if any) developed during thecooperation under this MoU, if any.

**Section 6: Liability**

a) This MoU and all disputes and claims arising out of or in connectionwith, shall be governed by the laws of India. The Parties irrevocably andunconditionally agree that any dispute or claim resulting out of or relatedto this MoU shall be solved by mutual discussion and Conciliation. Anywritten documentation for said purpose shall made in English.

**Section 7: Relationship**

a) Both Parties are independent entities, and this MoU will not beconstrued as constituting either Party as partner, joint venture partner orfiduciary of the other Party or to create any other form of legalassociation that would impose liability on one Party for the act or failureto act to the other Party or as providing respective organizations with theright, power or authority (express or implied) to create any duty orobligation of the other Party.

**Section 8: Governing Law**

This MoU and all disputes and claims arising out of or in connectionwith, shall be governed by the laws of the India. The Parties irrevocablyand unconditionally agree that any dispute or claim resulting out of orrelated to this MoU shall be finally solved by mutual discussion &conciliation. Any written documentation for the said purpose shall takeplace in English.

**Section 9: MoU Validity; Miscellaneous**

a) This MoU and Exhibit A thereto do not represent a complete summaryof the understanding of the Parties in relation to the cooperation butmerely express Parties current intentions. This MoU and Exhibit A do notimpose on either Party an obligation to enter into any agreements or anyother collaboration, joint venture, arrangement, or transaction.

b) The Sections 4 "Confidentiality", Section 5 "Intellectual PropertyRights", Section 6 "Liability", Section 8 "Governing Law", and this Section9 "MoU Validity; Miscellaneous", the terms of this MoU incl. Exhibit Athereto are intended to be and shall be legally binding on either Party.

c) Any amendment or supplement shall be properly signed by bothParties and form an integral part of this MoU and has the same legaleffect as this MoU. If SOI intended to send any notice under this MoUshall be delivered by email to csslr-ap@nic.in or by courier to O/o TheDirector, Survey, Settlements and Land Records, APIIC Building, AutoNagar, Mangalagiri, A.P. PIN code 522503 and if SSLR intends to sendany notice under this MOU shall be delivered to Surveyor General ofIndia, Hathibarkala Estate, New Cantt Road, Dehradun, Uttarakhand248001 India by post and email to sgi.soi@gov.in

d) This MoU incl. Exhibit A is duly executed by the legal representativesor the authorized representatives of the Parties, effective as of theEffective Date above written.

Either Party may terminate this MoU with a three (3) month prior writtennotice to the other Party without stating any reasons. Notwithstandinganything to the

contrary hereof Sections 4 "Confidentiality",5"Intellectual Property Rights", 6 "Liability", 8 "Governing Law", and this Section 9 "MoU Validity; Miscellaneous" shall survive the termination or expiration of this MoU.

e) This MoU is valid for a period of 5 years and may be renewed uponMutually agreed terms & conditions after the expiry of the said period.This MOU will be signed in two original copies with the same legal effectand each Party will hold one original copy.

In witness of the above, the Parties have caused this MoU to be executedby their duly authorized representative.

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| **Survey of India (SoI), Ministry of Science and Technology, GoI.**<br><br>Surveyor General of India<br>Hathibarkala Estate,<br>New Cantt Road<br>Dehradun, Uttarakhand<br>PIN 248001 | Witness 1<br>(from SOI) |
| **Survey, Settlements and Land Records, RevenueDepartment, Govt. of AP**<br><br>Director,<br>Survey, Settlements and Land Records,<br>4th Floor, APIIC Towers<br>Mangalagiri, Andhra Pradesh<br>PIN 522503 | Witness 2<br>(from SSLR, Govt. of AP) |

**G JAYALAKSHMI**
**SPECIAL CHIEF SECRETARY TO GOVERNMENT (FAC)**

## Exhibit - A

## Sharing of Data and Positioning Services Generated byAP CORS Network

1. The Survey, Settlements and Land Records (SSLR) Department,Government of Andhra Pradesh, has established a network ofseventy Continuously Operating Reference Stations (CORS),capable of observing GNSS satellite data 24x7 and disseminatingNetwork RTK correction streams. This provides real-time positioningservices with an accuracy better than 3–4 cm. The network wasestablished through a contract signed on 7thOctober 2019between the Managing Director, AP Technology Services Limited(on behalf of SSLR, AP), and M/s Hexagon Geo Systems (P) Limited,in consortium with M/s Geovista Technologies (P) Limited.

2. Survey of India (SoI), as the National Mapping Agency, is mandatedto create, develop, and maintain the National Geodetic ReferenceFrame (NGRF) to enable precise and consistent coordinate-basedlocation referencing across the country.

3. SSLR and SoI agree to jointly engage in the operation andmaintenance of the Andhra Pradesh CORS Network. SSLR shallcontinue to operate and maintain the CORS stations during thetenure of the existing contract and any of its amendments, bearingall related expenditures and liabilities during this period. Uponexpiry of the said contract and its amendments, SoI shall assumefull responsibility for the operation and maintenance of the networkfor the subsequent five years, including all associated costs andliabilities. To ensure alignment with evolving technical standards,SoI shall upgrade the existing hardware, software, and relatedinfrastructure of the AP CORS Network using its own resources.

4. In addition to Clause 3, future enhancements to the CORS receivers—such as support for multi-constellation systems, Indian NavIC, andhigher sampling rates—shall be undertaken by SoI. These upgradesshall include: (i) integration of AP CORS Control Centre with the SOIControl Centre (ii) provision of redundant power supply backup ateach station, (iii) provision of redundant communication at eachstation along with installation of essential hardware such as routers,power adapters, chargers, storage, and security devices, and (iv)deployment of appliances for surge and lightning protection. Allassociated expenditures shall be borne by SoI.

5. Operation and Maintenance (O&M) services shall be oversaw jointlymonitored by SoI and SSLR. The SLA for O&M shall be as per SoInational contractual agreement.

6. During the O&M period under SoI, SSLR shall permit access to CORSstation monuments for SoI personnel and authorizedrepresentatives solely for the maintenance of installed equipmentand appliances, and shall provide the necessary AC power supply atthese sites.

7. Ownership of the existing CORS base stations, including allsoftware, hardware, and appliances installed by SSLR, shall remainwith SSLR. Ownership of any additional hardware installed forupgradation shall rest with SoI. Any alteration, upgradation,replacement, or removal of existing or new hardware

shall beundertaken only with mutual agreement and prior writtenintimation to SSLR. Any hardware integration or asset augmentationshall be formally documented through a jointly issued handovernote and asset approval certificate specifying ownership,configuration, and inventory status. SSLR shall retain exclusiveadministrative access, configuration rights, and full operationalcontrol over all CORS equipment and systems within the state.Changes to technical policies—including firmware or softwareupdates, system architecture modifications, or protocol revisions—shall be made only after consultation with SSLR and documented bythe Joint Technical Committee to ensure traceability, accountability,and operational continuity.

8. Raw GNSS data from CORS stations installed by SSLR in AndhraPradesh shall be shared with SoI in real time. Any expenditureincurred for additional software, hardware, internet connectivity, orpower backup required for data sharing shall be borne by SoI.

9. The shared raw GNSS data may be used by SoI for both commercialand non-commercial purposes, including the maintenance of theNational Geodetic Reference Frame, geodetic networkharmonization, disaster management planning, support forGovernment-to-Government (G2G) initiatives, location-basedservices for government and private users, and promoting researchand development in geodesy, geospatial technologies, and alliedsectors such as logistics, construction, agriculture, inland andmaritime navigation, and Earth system observations. Anycommercial use of the shared data, apart from the standardposition augmentation service for surveying and mapping activities,shall be intimated in advance in writing to the Commissioner andDirector, SSLR, Government of Andhra Pradesh.

10. Recognizing that the initial capital investment in establishing theexisting CORS network was made by AP Survey, Settlement & Land Records (AP SSLR), SoI has agreed that all revenue collected (as perpricing policy of AP SSLR) from private users accessing CORS dataand services in Andhra Pradesh will be collected by AP SSLRdirectly. This will be operationalised through a direct linkage of APSSLR's designated bank account to SoI CORS portal. SoI will not require any revenue sharing from the existing setup, for thedevelopment of this sector. The GoAP retains full rights to distributeCORS data via its official channels and shall manage user access,billing, and service delivery independently, without interference or duplication by SoI.

11. SoI may share raw GNSS data and derivative products from theAndhra Pradesh CORS Network internationally, strictly underGovernment of India treaty commitments related to global geodeticreference frames, early warning systems, and Earth observation.Such sharing shall be carried out with prior intimation to theCommissioner and Director, SSLR, Government of Andhra Pradesh.The shared data must be clearly attributed as "AP CORS –Government of Andhra Pradesh" and shall not be combined withother datasets in a way that obscures state ownership.

12. SoI shall register GoAP users on its control centre for at least aminimum of 1,500 concurrent users, for accessing CORS networkproducts and services at free of cost. During periods of high serverload or bandwidth contention, priority access shall be given to GoA Pusers.

13. SoI shall lead user engagement and commercialization of AP CORSdata at the national level. However, SSLR shall retain full andindependent authority to commercialize AP CORS data andderivative services for revenue generation, without any restrictions,conditions, or controls imposed by SoI.

14. SoI shall share user and usage analytics relevant for planning andanalysis of the AP CORS network, along with ManagementInformation System (MIS) reports, with the Commissioner andDirector, SSLR. Additionally, SoI shall share reports on networkuptime, latency, connection failures, and related connectivityinformation for each AP CORS station on its servers. These reportsshall be shared on a fortnightly basis.

15. Both parties shall not be held liable for any misuse of GNSS dataand services shared with national or international users by theother party. Both parties shall comply with the data policies of theGovernment of India and the Government of Andhra Pradesh.

16. SoI shall provide necessary training and technical consultancy toSSLR officers for the operation and maintenance of the AP CORSNetwork, ensuring that these activities align with the NationalGeodetic Reference Frame (NGRF).

17. SoI shall share raw GNSS data collected from its own continuouslyoperating reference stations in areas neighboring Andhra Pradesh,along with derivative products and real-time services, to facilitatesurveying, mapping, and GIS-related work by SSLR within AndhraPradesh and in inter-state border regions. This sharing shall bedone in accordance with the "Guidelines for Acquiring andProducing Geospatial Data and Geospatial Data Services IncludingMaps" issued by the Department of Science and Technology,Government of India, without any charges.

18. A Joint Technical Oversight Committee (JTOC), with equalrepresentation from SoI and the Government of Andhra Pradesh(including technical members nominated by SSLR), shall beconstituted as the primary governance body to oversee alloperational, technical, and data-sharing matters related to the APCORS Network. The Committee shall review and approve policies,upgrades, and services; resolve grievances; and ensure alignmentwith both governments data policies and strategic and sovereigndata interests. The JTOC shall meet on a half-yearly basis, or asneeded, maintaining signed minutes for transparency andaccountability.

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| **Survey of India (SoI), Ministry of Science and Technology, GoI.**<br><br>Surveyor General of India<br>Hathibarkala Estate,<br>New Cantt Road<br>Dehradun, Uttarakhand<br>PIN 248001 | Witness 1 (from SOI) |
| **Survey, Settlements and Land Records, RevenueDepartment, Govt. of AP**<br><br>Director,<br>Survey, Settlements and Land Records,<br>4th Floor, APIIC Towers<br>Mangalagiri, Andhra Pradesh<br>PIN 522503 | Witness 2 (from SSLR, Govt. of AP) |

**G JAYALAKSHMI**
**SPECIAL CHIEF SECRETARY TO GOVERNMENT (FAC)**